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HDP/SB/21 based on PTO/SB/21 (08-00)

<b>&gt;</b>			Applie	estion Number	10/092	,551	
TRANS	MITTAL		<del></del>	ation Number	<del></del>		
(to be used for all correspondence after initial filing)			Filing Date First Named Inventor		<del></del>	February 25, 2002	
					Szemir	ng Cheng et al.	
			Group	Art Unit	Unkno	wn	
			Exami	ner Name	Unkno	wn	
Total Number of Pages in	This Submission	5	Attorn	ey Docket Number	9432-0	00172	
		ENCLO	SURES	(check all that apply)			
Fee Transmittal Form			ment Pap Application		Afte Gro	er Allowance Communication to sup	
Fee Attached		☐ Drawin	g(s)			eal Communication to Board of eals and Interferences	
Amendment / Respon	se	Licensi	ng-relate	d Papers		peal Communication to Group peal Notice, Brief, Reply Brief)	
After Final		Petition			Pro	prietary Information	
Affidavits/declarat	ion(s)		to Conv onal App		Status Letter		
Extension of Time Re	quest	Power of Attorney, Revocation Change of Correspondence Address		Other Enclosure(s) (please identify below):			
<ul> <li>□ Express Abandonment Request</li> <li>☑ Information Disclosure Statement</li> <li>□ Certified Copy of Priority Document(s)</li> </ul>		☐ Terminal Disclaimer ☐ Request for Refund		Form 1449 with 24 Reference Acknowledgement Postcard			
		CD, Number of CD(s)				•	
		Rema	The Commissioner is additional fees that ma		nay be re	authorized to charge any quired under 37 CFR 1.16 or 1. 50. A duplicate copy of this	
Response to Missing Incomplete Application		<u>-</u>					
Response to Miss Parts under 37 CF 1.52 or 1.53							
	SIGNA	TURE OF A	APPLICA	ANT, ATTORNEY, O	R AGEN	T	
Firm or Individual name  Harness, Dickey & Pier		Pierce, P.L.		orney Name nothy D. MacIntyre		Reg. No. 42,824	
Signature							
Date Jui	ne 6, 2002						
	С	ERTIFICAT	TE OF N	IAILING/TRANSMIS	SION		
	oner of Patents a	nd Trademai				as first class mail in an envelop transmitted to the U.S. Patent ar	
Typed or printed name	Michelle A. Sr	· · · · · · · · · · · · · · · · · · ·					
Signature	me	hell	<del>Д</del> (1	milk	Date	June 6, 2002	

#5

**PATENT** 

N THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application (1988).:

10/082,551

Filing Date:

February 25, 2002

Applicant:

Szeming Cheng et al.

Group Art Unit:

Unknown

Examiner:

Unknown

Title:

Enhanced Method for Digital Data Hiding

Attorney Docket:

9432-000172

Hon. Commissioner of Patents and Trademarks Washington, D.C. 20231

### **INFORMATION DISCLOSURE STATEMENT**

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

### I. <u>LIST OF PATENTS, PUBLICATIONS, AND OTHER INFORMATION</u>

The patents, publications and other information submitted for consideration by the Office (except unpublished U.S. patent applications) are listed on Form 1449 attached hereto.

#### II. <u>COPIES</u>

A. X Submitted herewith is a legible copy of (i) each U.S. patent application publication and U.S. and foreign patent; (ii) each publication or that portion which caused it to be listed; (iii) for each cited pending U.S. application, the application specification including the claims, and any drawing of the application which caused it to be listed including the claims directed to that portion; and (iv) all other information or that portion which caused it to be listed.

B. \_\_\_\_ Any patents, publications or other information which are listed on Form 1449 or on the copies of PTO-892, but which are not enclosed herewith, were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

U.S. Serial Number

U.S. Filing Date

information. The documents	ational Search Report is listed on the Internation for consideration by the application. Since the JPO search authorities the USPTO under the	s attached for the Examiner's onal Search Report are listed e Examiner and for listing on International Search Report copies of these references e trilateral agreement and are
CONCISE EXPLANATION O	F THE RELEVANCE (c	check <u>at least</u> one box)
A. X Except as may be ind other information are in the E		
<del></del>		each patent, publication or nguage is as follows (see 37
1See the attach counterpart fore 2English translate 3Other:	eign application:	fice communication from a
C The following addition	onal information is p	rovided for the Examiner's
CROSS REFERENCE TO RE	ELATED APPLICATION	<u>V(S)</u>
A The Examiner is ad- contain(s) subject matter the bringing this(these) applica does(do) not waive the confid	at may be related to tion(s) to the Exami	ner's attention, Applicant(s)
Serial No.	Filing Date	Art Unit
THIS IDS IS BEING FILED U	<u>NDER</u>	
A. X 37 C.F.R. § 1.97(b): (	check <u>only</u> one box)	
than a continued pros		of a national application other nder § 1.53(d) (37 C.F.R. §
	nternational application	ry of the national stage as set (37 C.F.R. § 1.97(b)(2)). No

Serial No. 10/082,551

III.

IV.

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	3. X before the mailing of a first Office Action on the merits (37 C.F.R. § 1.97(b)(3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below; or, if no certification has been made, charge our deposit account a fee in the amount of \$180.00 as required by 37 C.F.R. § 1.17(p).
	4 before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No fee or certification is required.
В	_ 37 C.F.R. § 1.97(c): (check <u>only</u> one box)
	• before the mailing date of either any Final Office Action under 37 C.F.R. § 1.113, a Notice of Allowance under 37 C.F.R. § 1.311, or an action that otherwise closes prosecution.
	1 No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).
	2 See the certification below. No fee is required.
C	_ 37 C.F.R. § 1.97(d):
	<ul> <li>after the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, yet on or before payment of the issue fee.</li> </ul>
	1 See the certification below. A fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).
CER	TIFICATION UNDER 37 C.F.R. § 1.97(e): (check only one box)
The u	undersigned hereby certifies that:
cc ar C	_each item of information contained in this IDS was first cited in a communication from a foreign patent office in a counterpart foreign oplication not more than three months prior to the filing of this IDS (See 37 .F.R. § 1.97(e)(1)). See further statement under 37 C.F. R. 1.704(d) below section VII, if applicable; or
R	no item of information contained in this IDS was cited in a communication

from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37

VI.

C.F.R. § 1.56(c) more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(2)).

C. \_\_\_Some of the items of information were first cited in a communication from a foreign patent office. As to this information, the undersigned hereby certifies that each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS.

#### VII. STATEMENT UNDER 37 CFR 1.704(d)

The undersigned hereby states that:

\_\_\_\_ each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. 1.56(c) more than thirty days prior to the filing of this IDS.

## VIII. PAYMENT OF FEES (check only one box)

- A. \_\_\_\_ A check in the amount of \$180.00 is enclosed for the above-identified fee.
- B. \_\_\_\_ Please charge Deposit Account No. 08-0750 in the amount of \$180.00 for the above-indicated fee. A duplicate copy of this paper is attached.

The above references are being cited only in the interest of candor and without any admission that they constitute statutory prior art, contain matter which anticipates the invention, or which would render the same obvious, either singly or in combination, to a person of ordinary skill in the art. Furthermore, this Information Disclosure Statement shall not be construed as a representation that a search has been made.

If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 08-0750.

Please charge any additional fees or credit any overpayment pursuant to 37 C.F.R. § 1.16 or § 1.17 to Deposit Account No. 08-0750.

Respectfully submitted,

Dated: <u>June 6, 2002</u>

Timothy D. MacIntyre Reg. No. 42,824

HARNESS, DICKEY & PIERCE, P.L.C. P.O. Box 828 Bloomfield Hills, Michigan 48303 (248) 641-1600





# FORM HDP 1949 (Based on Form PTO-1449)

# PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Sheet 1 of 2

ATTORNEY DOCKET NO.	SERIAL NO.
9432-000172	10/082,551
APPLICANT	
Szeming Cheng et al.	
FILING DATE	GROUP
February 25, 2002	Unknown

U.S. PATENT DOCUMENTS							
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date	
1.		5,930,369	07/27/99	Cox et al.			
2.		5,915,027	06/22/99	Cox et al.			
3.		5,905,800	05/18/99	Moskowitz et al.			
4.		5,893,067	04/06/99	Bender et al.			
5.		5,848,155	12/8/98	Cox			
6.		5,809,139	09/15/98	Girod et al.		_	
7.		5,778,102	07/07/98	Sandford, II et al.			
8.		5,748,783	05/05/98	Rhoads			
9.		5,450,490	09/12/95	Jensen et al.			
10.		5,073,925	12/17/91	Nagata et al.			

OTHE	OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)					
Ref. Desig.	Examiner's Initials					
1.		E. Koch, J. Zhao, "Towards Robust and Hidden Image Copyright Labeling", In Proc. of 1995 IEEE Workshop on Nonlinear Signal and Image Processing (Neos Marmaras, Greece, June 20-22, 1995)				
2.		I.J. Cox, J. Kilian, F.T. Leighton, T. Shamoon, "Secure Spread Spectrum Watermarking for Multimedia", IEEE Transactions on Image Processing, Vol. 6, No. 12, December 1997.				
3.		I.J. Cox, M.L. Miller, A.L. McKellips, "Watermarking as Communications with Side Information", Proceedings of the IEEE, Vol. 87, pp. 1127-1141, July 1999.				
4.		F. Hartung, J. K. Su, B. Girod, "Spread Spectrum Watermarking: Malicious Attacks and Counterattacks" Proc. SPIE Security Watermarking of Multimedia Contests 99, San Jose, CA., January 1999.				

Examiner:	Date Considered:



FORM HDP-1449 (Based on Form PTO-1449)

# PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Sheet 2 of 1

ATTORNEY DOCKET NO.	SERIAL NO.
9432-000172	10/082,551
APPLICANT	
Szeming Cheng et al.	
FILING DATE	GROUP
February 25, 2002	Unknown

OTHE	OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)					
Ref. Desig.	Examiner's Initials					
5.		Q. Cheng, T. S. Huang, "An Additive Approach to Transform-Domain Information Hiding and Optimum Detection Structure, IEEE Transactions on Multimedia, Vol. 3, pp. 273-284, September 2001.				
6.		M. Arnold, S. Kanka, "MP3 Robust Audio Watermarking" DFG VIIDII Watermarking Workshop 1999, Erlangen, Germany.				
7.		W. Bender, D. Gruhl, N. Morimoto, A. Lu, "Techniques for Data hiding", IBM Systems Journal, Vol. 35, Nos 3&4, 1996.				
8.		C. I. Podilchuk, W. Zeng, "Image-Adaptive Watermarking Using Visual Models", IEEE Journal on Selected Areas in Communications, Vol. 16, No. 4, May 1998.				
9.		F. Hartung, B. Girod, "Watermarking of Uncompressed and Compressed Video", vol. 66, No. 3, May 1998, pp. 283-301.				
10.		M. D. Swanson, B. Zhu, A.H. Tewfik, "Robust Data Hiding for Images", Proc. 1996 IEEE Digital Signal Processing Workshop.				
11.		L. Boney, A. H. Tewfik, K.N. Hamdy, "Digital Watermarks for Audio Signals", 1996 IEEE Proceedings of Multimedia.				
12.		P. Bassia, I. Pitas, "Robust Audio Watermarking in the Time Domain", Thessaloniki 540 06, Greece.				
13.		M. Arnold, S. Kanka, "MP3 Robust Audio Watermarking", Department for Security Technology for Graphics and Communication Systems.				
14.		C. Neubauer, J. Herre, "Audio Watermarking of MPEG-2 AAC Bit Streams", AES 108th Convention, Paris 2000 February 12-22.				

Examiner:			Date Considered:	